



EZ0275 Air Bearing Stage

Air bearing rotary table with direct drive for high accuracy applications.

Equipped with a direct drive motor and a high accuracy rotary encoder for position controlled applications.

Rotor can be clamped by turning off air.

Mechanical specifications:

Outer diameter x height [mm]:	149 x 80
Turning range [°]:	360
Carrying capacity axial [N]:	600 / 200
Carrying capacity radial [N]:	300
Run out error axial [μm]:	0.05
Run out error radial [μm]:	0.05
Stiffness axial [N/μm]:	200
Stiffness radial [N/μm]:	30
Resistance against tilt [Nm/μrad]:	0.13
Inclination compliance [μrad/Nm]:	7.8
Inclination max. load [Nm]:	20
Inertial moment [kg m²]:	0.007
Weight [kg]:	13.5
Air supply pressure [bar]:	5
Air consumption [Nl/min]:	13
Material (housing):	Aluminium anodized black
Material (rotor):	Stainless steel 01.4305

Motor specifications:

IDAM RMF 2P 77x15LD	
Revolutions per minute [rpm/min]:	1000
Continuous torque [Nm]:	0.76
Continuous /peak current [A eff]:	3 / 8

Measurement system:

Numerik Jena RIK4	
Signals per rotation:	18000

Signal output:	RS 422 / 1Vpp
Reference signal:	TTL active high

Control system:

Servo motor controllers are available on request.

